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FILE # 99711-3

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August 18, 1967

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P. O. BOX 6766  
Fort Davis Station  
Washington, D. C. 20026

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Attention:

Reference:

Subject: Thirty-Seventh Monthly Letter Report

Gentlemen:

Enclosed are five (5) copies of the Thirty-Seventh Monthly Letter Report covering the period of July 1, 1967 to July 31, 1967, in accordance with the referenced contract.

Sincerely,

INFORMATION SYSTEMS DIVISION

Manager, Contracts

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WAK:ck

Enclosure: 1 to Contracting Officer  
4 directly to Technical Monitor

Declass Review by NGA.

**CONFIDENTIAL**

"This material contains information affecting the national defense of the United States within the meaning of the espionage laws, Title 18, U. S. C., sections 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law."

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CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

THIRTY-SEVENTH MONTHLY LETTER REPORT

AUGUST 10, 1967

Period: July 1, 1967 to July 31, 1967

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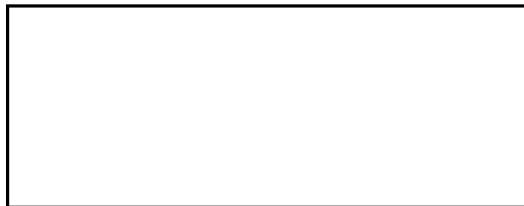


TABLE OF CONTENTS

<u>Section No.</u>		<u>Page No.</u>
1.0	<u>CONTACT DUPLICATING &amp; RESEAU PRINTER</u>	
1.1	Purpose.....	1
1.2	Activity of this Report Period..	1
1.3	Plans for Next Report Period....	2
1.4	Problems.....	2
1.5	Documentation.....	2
1.6	Questions Outstanding.....	2
2.0	<u>HIGH RESOLUTION STEP &amp; REPEAT PRINTER</u>	
2.1	Purpose.....	2
2.2	Activity of this Report Period..	2
2.3	Documentation.....	2

## 1.0 CONTACT DUPLICATING AND RESEAU PRINTER

### 1.1 Purpose

The overall objective of the current contract is the design, fabrication, test, and delivery of a photographic step and repeat Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will accommodate films of 70mm to 9 $\frac{1}{2}$ " width with frame lengths up to 30 inches and will provide operation in the Reseau mode and selective mode as options.

### 1.2 Activity of this Report Period

Preliminary acceptance tests were performed for the Government monitors on July 5, 6 and 7. Results were satisfactory with the exception of a mechanical failure of a platen latch which was later corrected. Resolution tests proved an average of 335 lpm in 44 separate readings. All other functions of film metering, frame edge detection, raw stock metering, and Reseau punching and printing were acceptable.

The training course took place on July 10 to 14, during which period an operator and a maintenance man from the Government were trained in all aspects of operation, servicing, and troubleshooting of the printer.

Operation and Maintenance Manuals were completed, and six copies delivered to the program monitors and contracting officer.

All new drawings and drawing changes have been documented to bring records up to date. Reproducibles and prints are currently being forwarded.

The printer was delivered to the Government on July 19, 1967, and installation and testing accomplished on July 25-28, 1967. During check-out tests at the Government facility, two minor faults were corrected concerning a photocell bulb and a loose adjustment screw. All other tests were satisfactory, and acceptance tests on classified films are now being carried out by Government personnel.

The Pre-View and Punch Station is currently being modified at  for improved ease of operation and functional repeatability. Preliminary tests show great improvement in smoothness of adjustment and ease of operation.

25X1

-2-

1.3 Plans for Next Report Period

The Pre-View and Punch Station will be completed, shipped, and installed during August.

Final drawing records will be forwarded to the Government.

1.4 Problems

None.

1.5 Documentation

Operator's and Maintenance Manuals have been completed and delivered.

1.6 Questions Outstanding

None.

2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

2.1 Purpose

The purpose of this effort is to design, fabricate, test, and deliver in twenty months a high precision step and repeat, photographic contact printer. This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll film widths varying from 70mm to 9½" and in pre-selected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this Report Period

There was no activity this month.

2.3 Documentation

None.